

H1 Purify of AcAP
rg=40 spin=20 23.5 C
lk=100 lp=34 lg=47
z0=-5049 lph=163
thing2x ASW_p003732
07/17/13 WJL

Agilent Technologies

Sample Name:

Data Collected on:
thing2x-inova400
Archive directory:

Sample directory:

FidFile: Purify_of_AcAP_08_08_13_HNMR

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Aug 8 2013

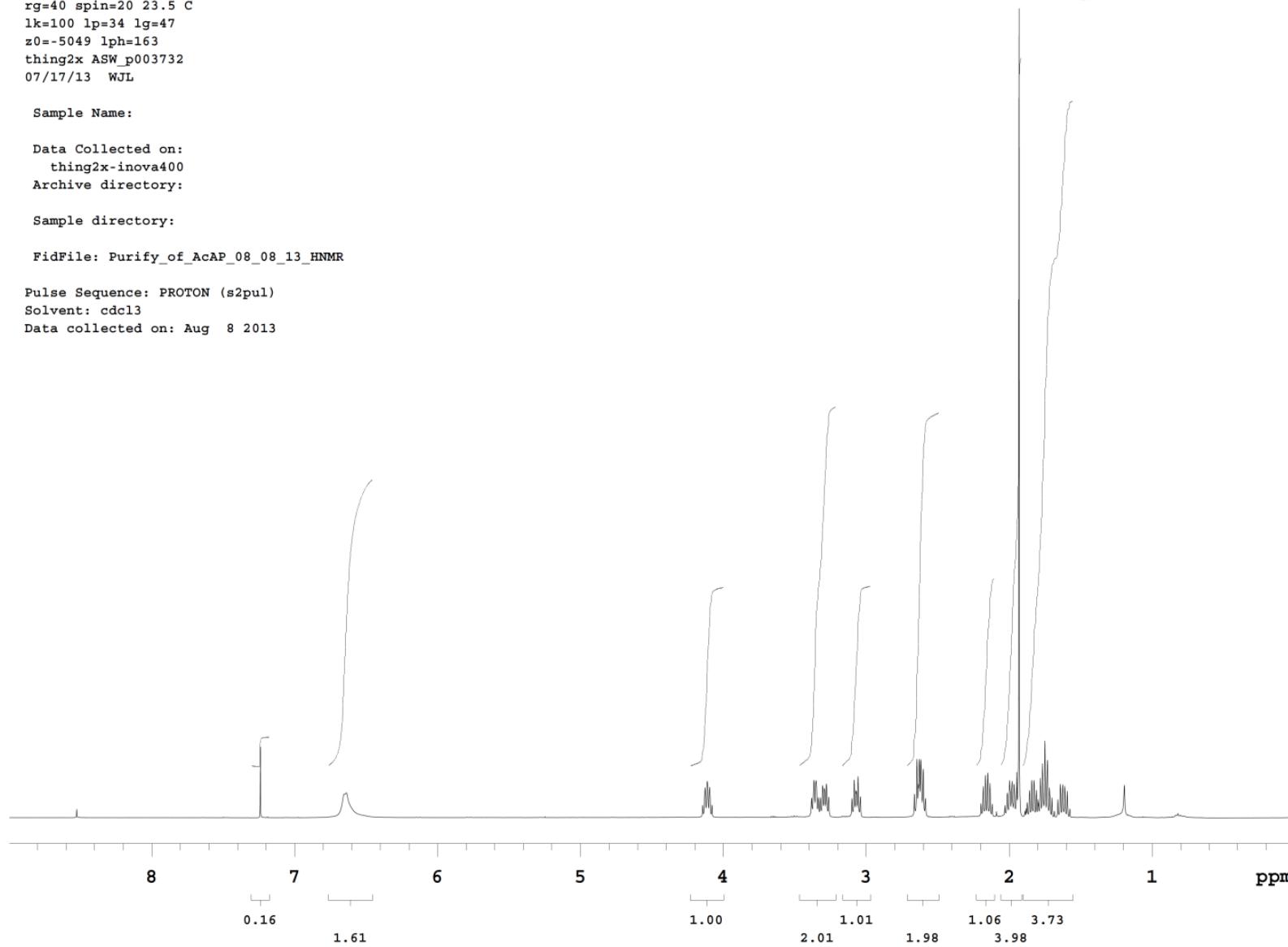


Fig. S1. ¹H NMR spectrum of synthetic (\pm)-2a.

Sample Name:
Minakshi
Data Collected on:
pallasx-inova600
Archive directory:

Sample directory:

FidFile: 1H1d_AcAP_12Sep12

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Sep 12 2012

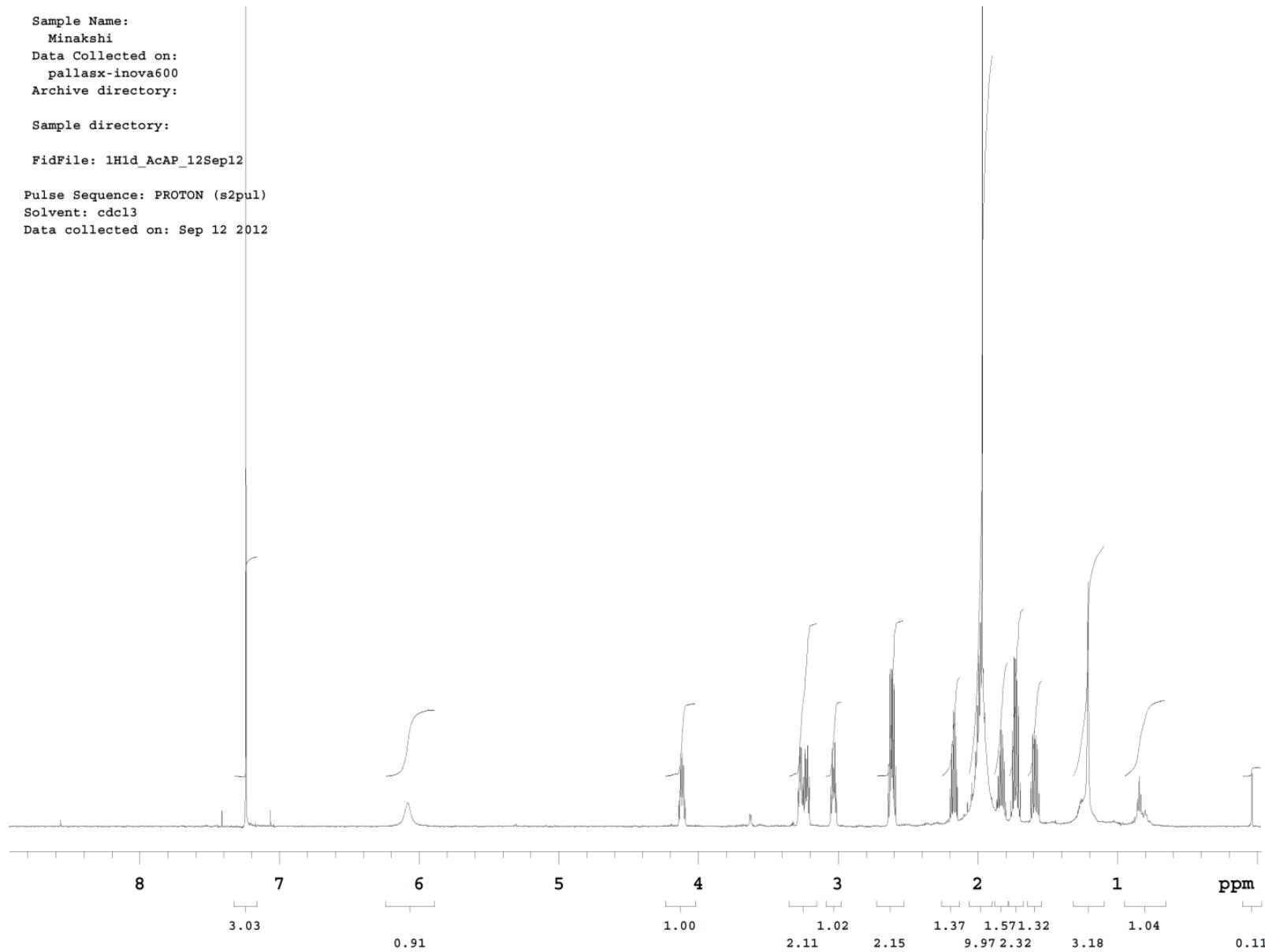


Fig. S2. ¹H NMR spectrum of **2a** isolated from an *Elymus canadensis*-*Epichloë canadensis* symbiotum.

Sample Name:
Synthetic_AcAP
Data Collected on:
thinglx-inova400
Archive directory:

Sample directory:

FidFile: Pure_AcAP_06_19_2013_CNMR

Pulse Sequence: CARBON (s2pul)
Solvent: d2o
Data collected on: Jun 19 2013

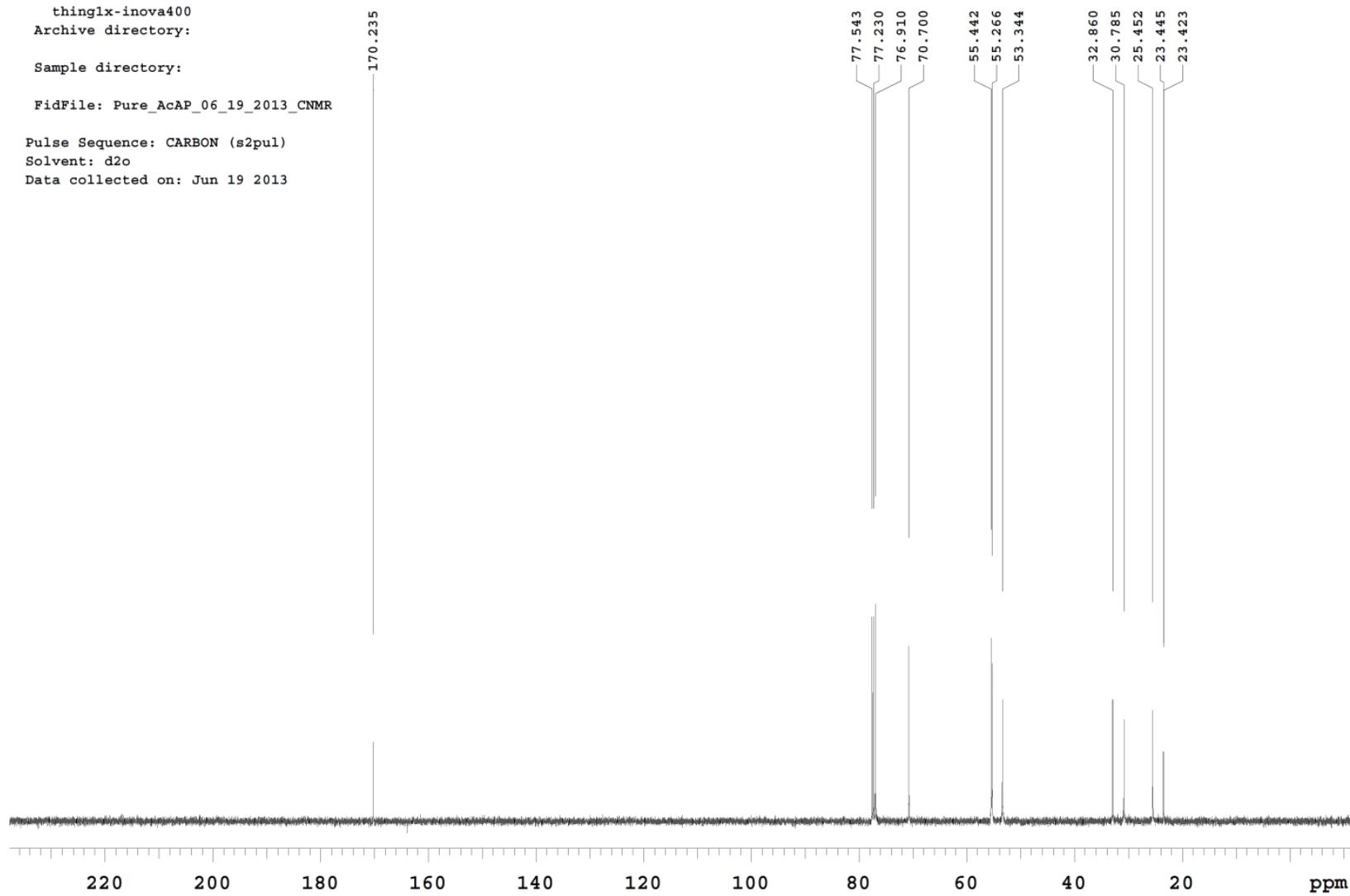


Fig. S3. ^{13}C NMR spectrum of synthetic (\pm) -2a.

Sample Name:

Data Collected on:
pallasx-inova600
Archive directory:

Sample directory:

FidFile: 13C1d_AcAP_14Sep12

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Sep 14 2012

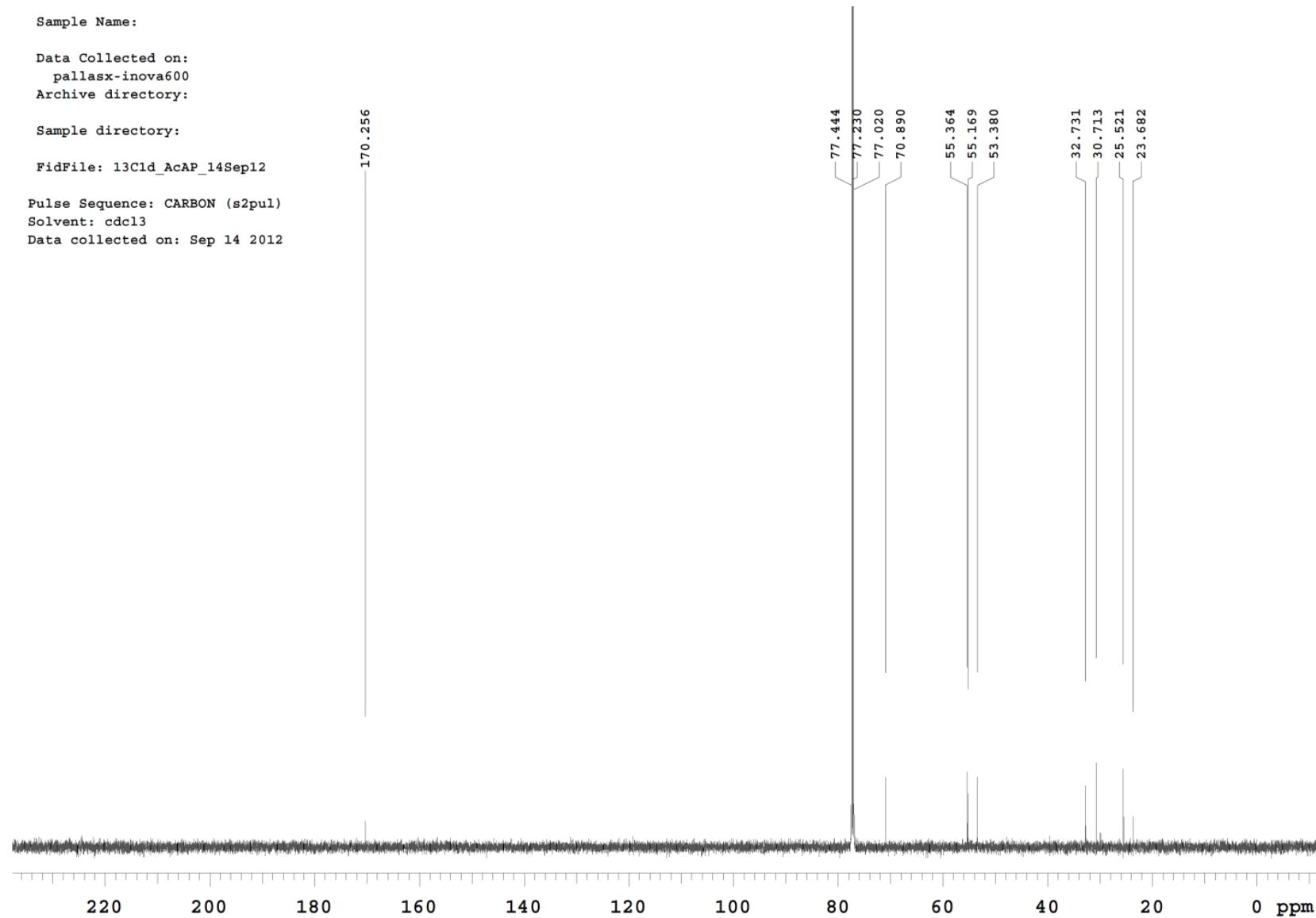


Fig. S4. ¹³C NMR spectrum of isolated **2a**.

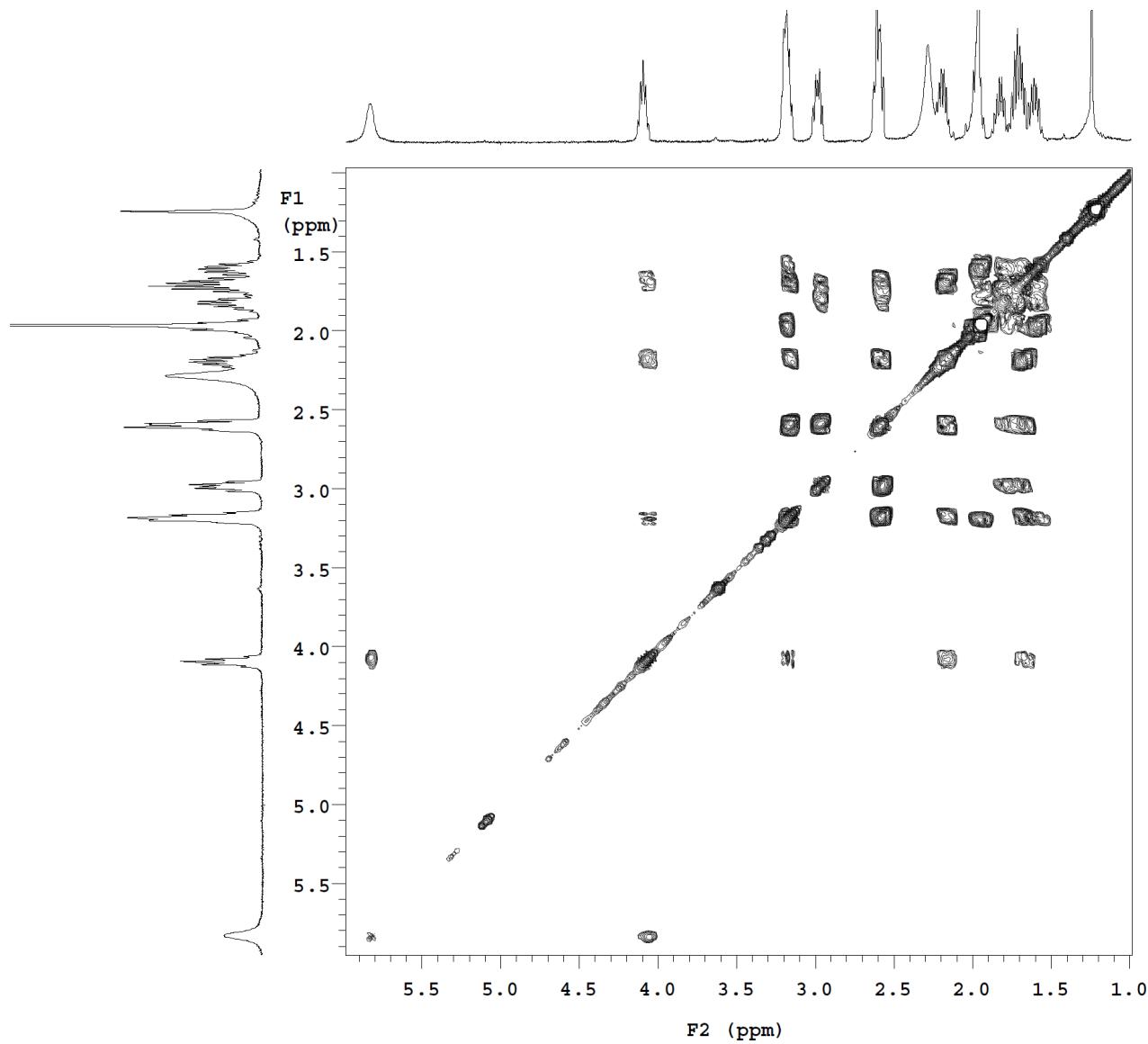


Fig. S5. COSY spectrum of synthetic (\pm)-2a.

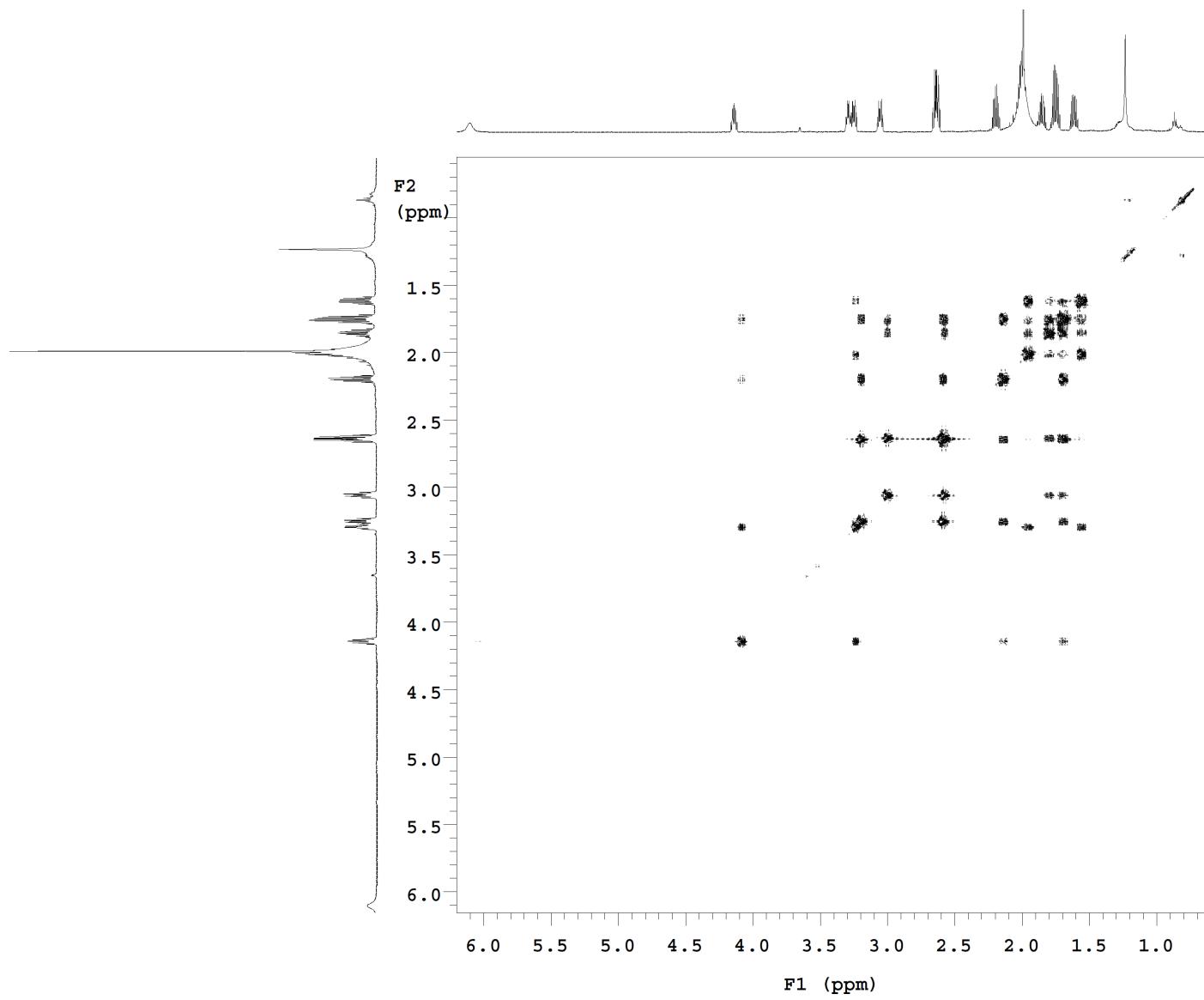


Fig. S6. COSY spectrum of isolated **2a**.

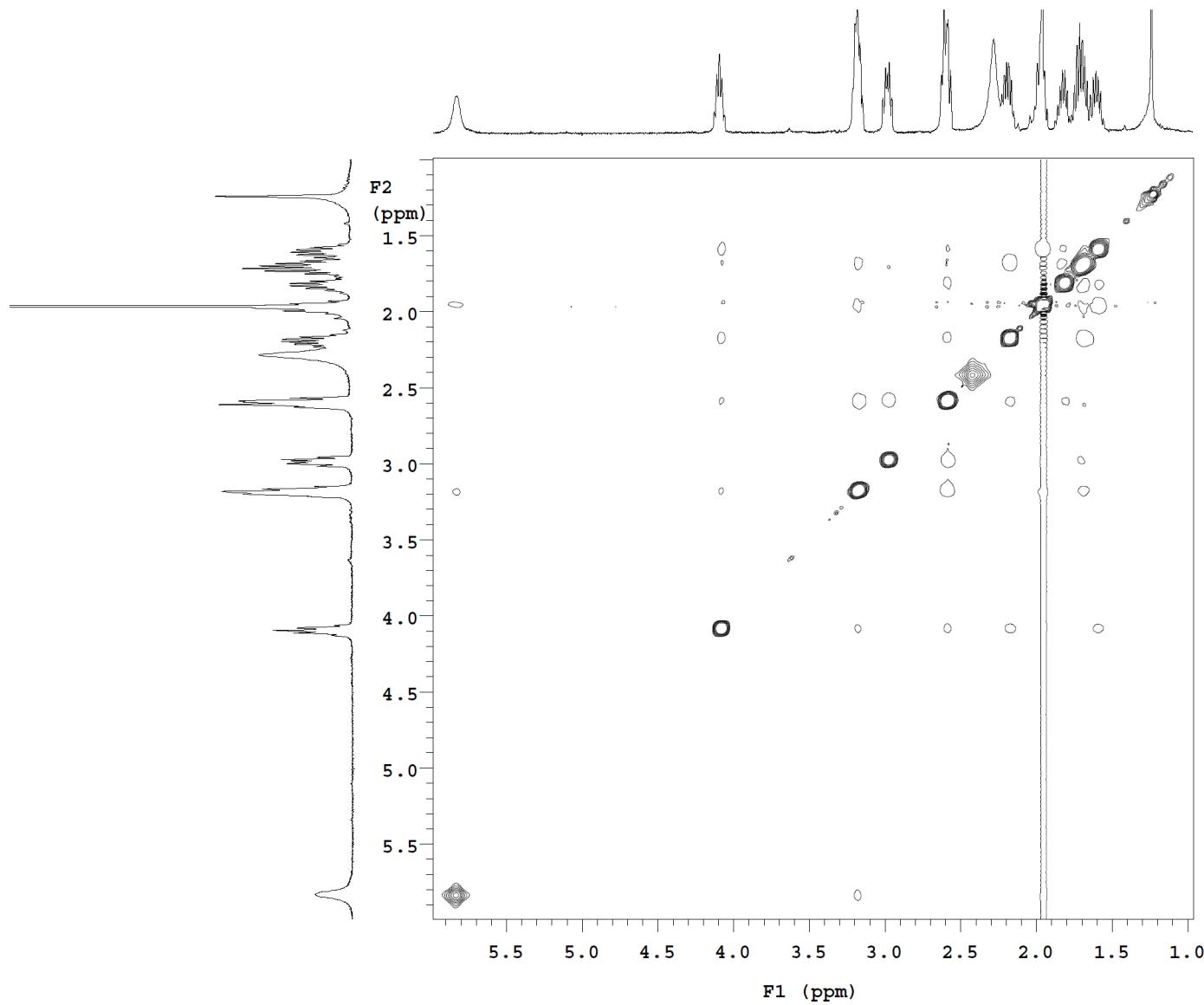


Fig. S7. NOESY spectrum of synthetic (\pm)-2a.

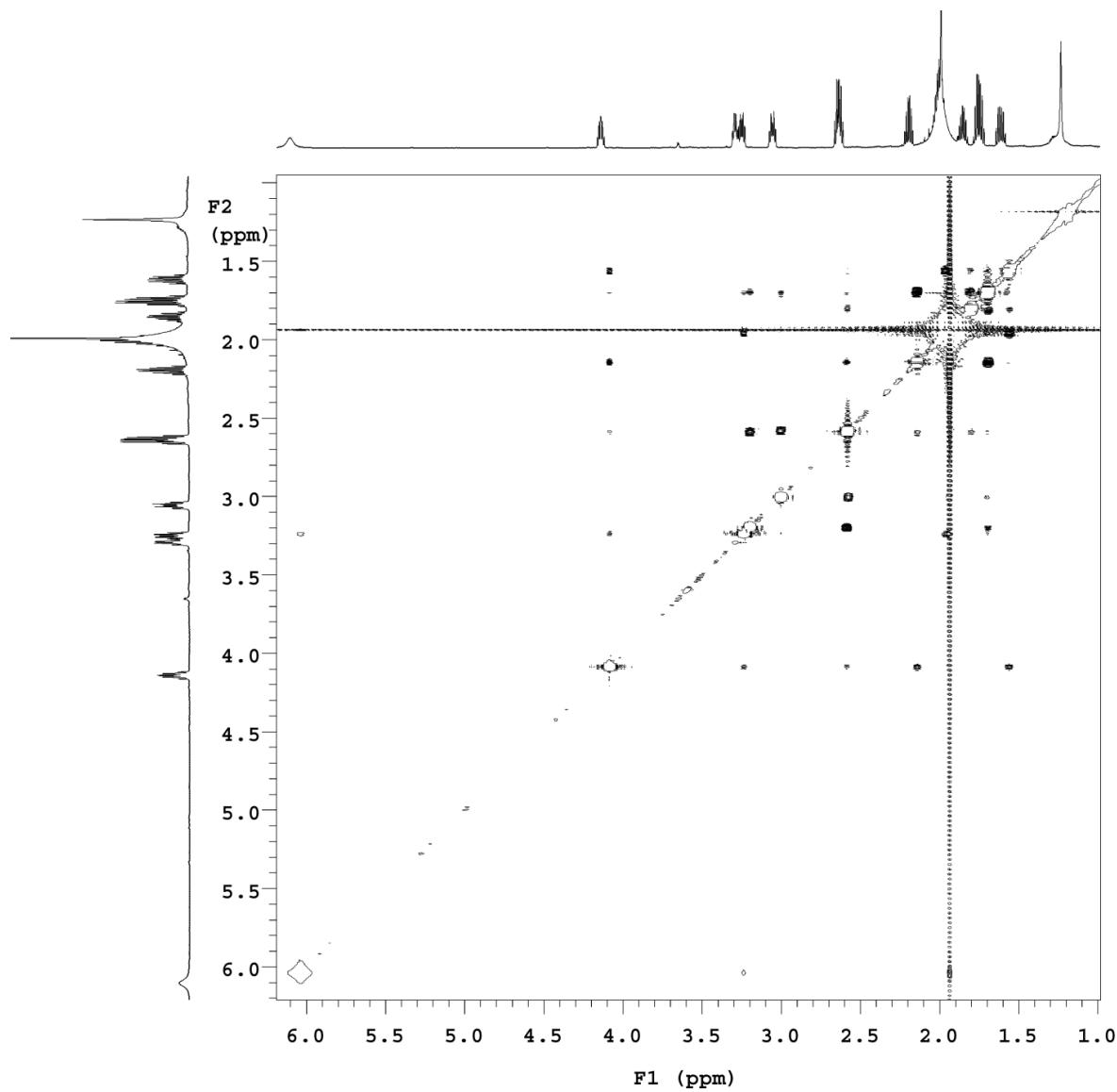


Fig. S8. NOESY spectrum of isolated **2a**.

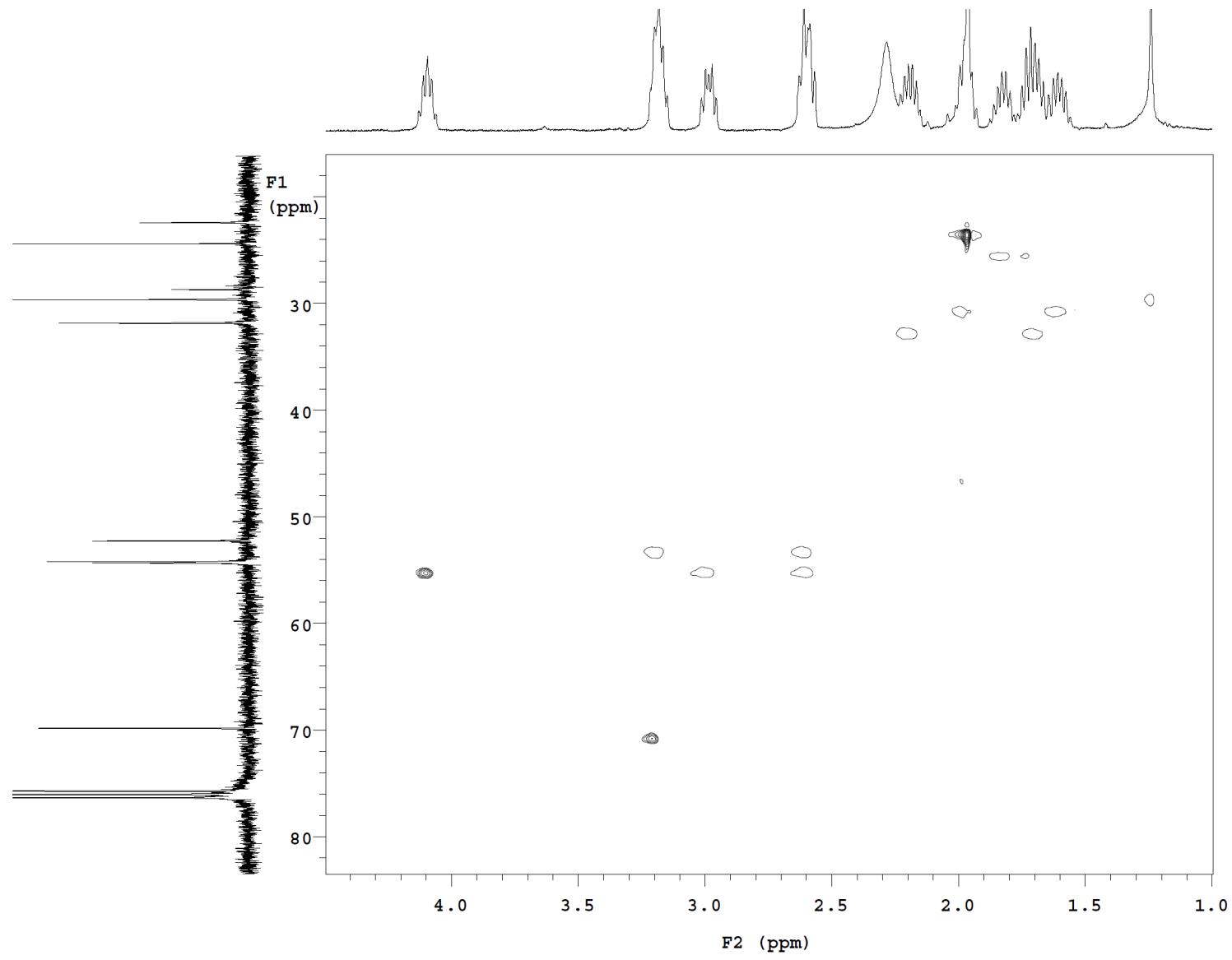


Fig. S9. HSQC spectrum of synthetic (±)-2a.

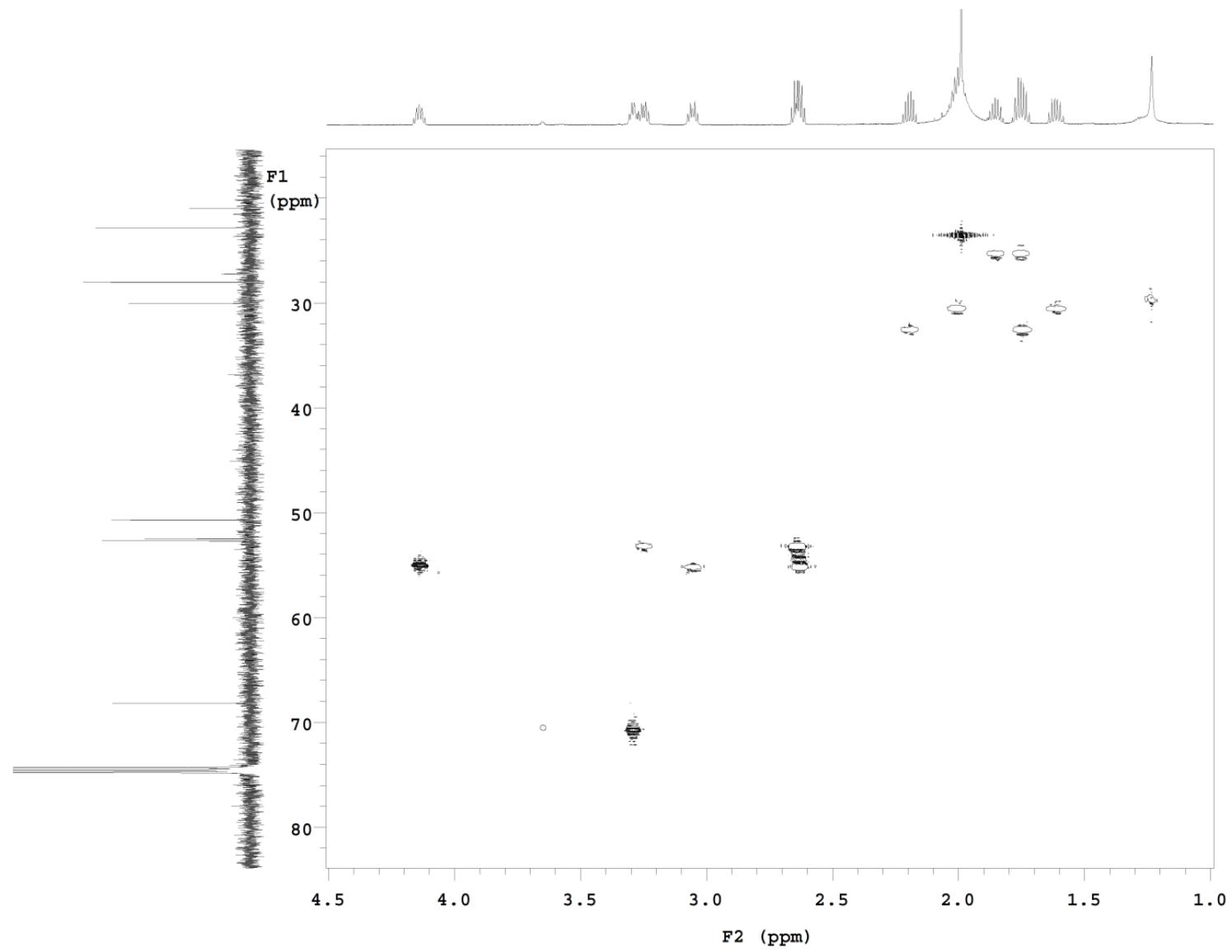


Fig. S10. HSQC spectrum of isolated **2a**.

H1 mixture of natural and synthetic AcAP

rg=52 spin=20 23.5 C

lk=100 lp=33 lg=48

z0=-5201 lph=163

thing2x ASW_p003732

07/17/13 WJL

Sample Name:

isolated_AcAP

Data Collected on:

thing2x-inova400

Archive directory:

Sample directory:

FidFile: mixture_of_natural_and_synthetic_AcAP_08_08_13_HNMR

Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: Aug 8 2013

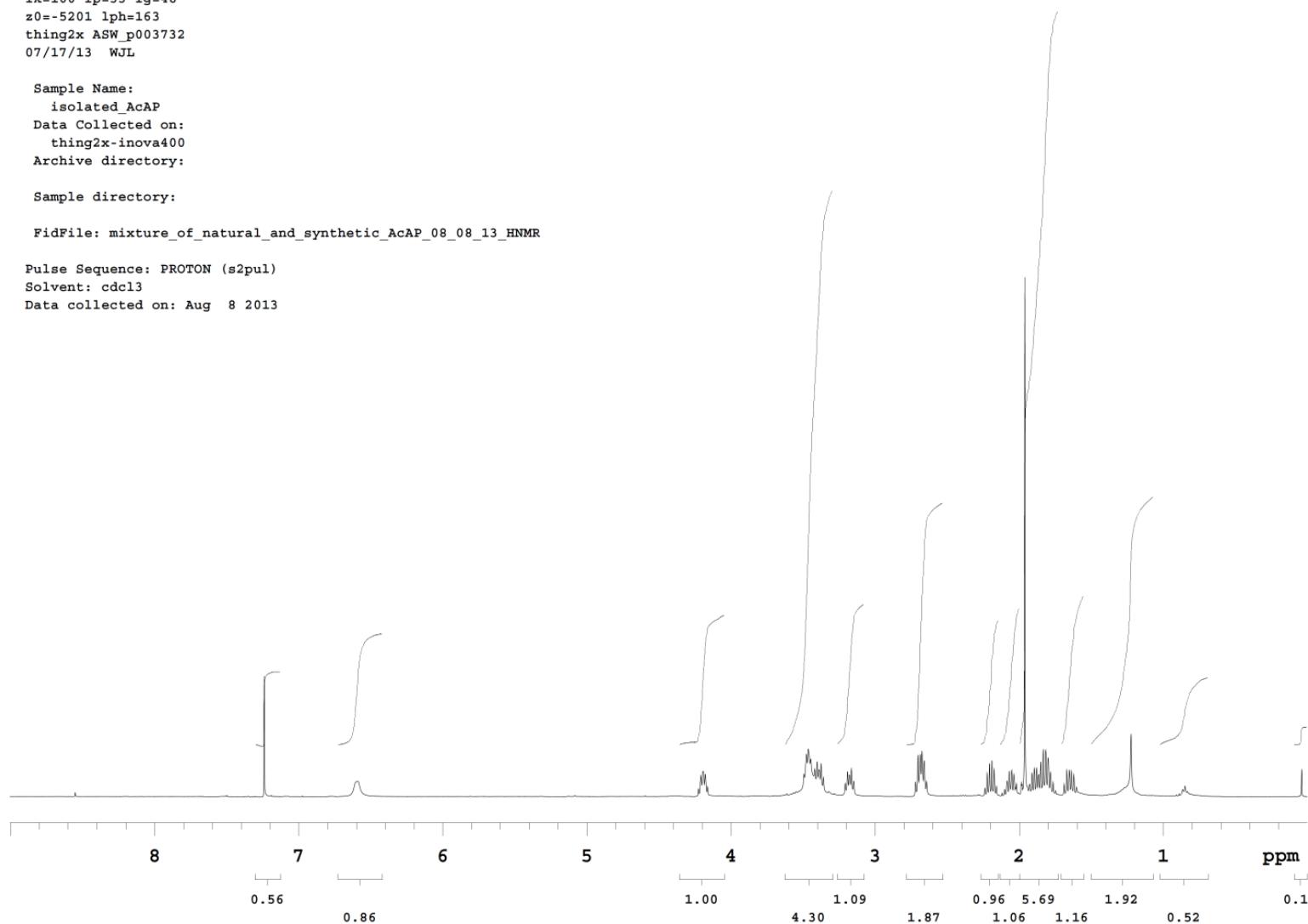


Fig. S11. ^1H NMR spectrum of 1:1 mixture of synthetic (\pm)-**2a** and isolated **2a**.

C13 mixture of Natural and synthetic AcAP
rg=60 spin=20 23.5 C
lk=100 lp=33 lg=48
z0=-5201 lph=163
thing2x ASW_p003732
07/17/13 WJL

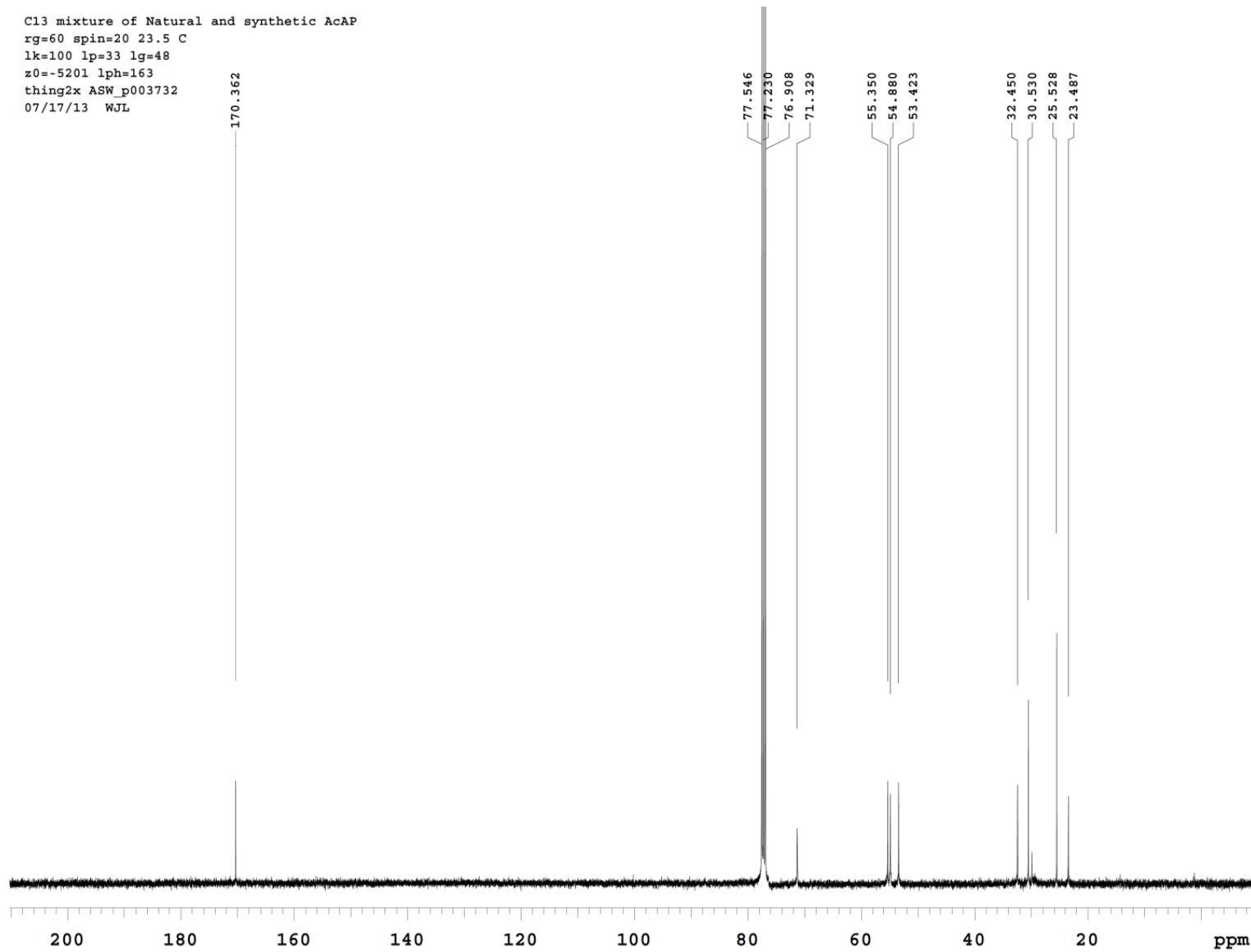


Fig. S12. ¹³C NMR spectrum of 1:1 mixture of synthetic (\pm)-**2a** and isolated **2a**.

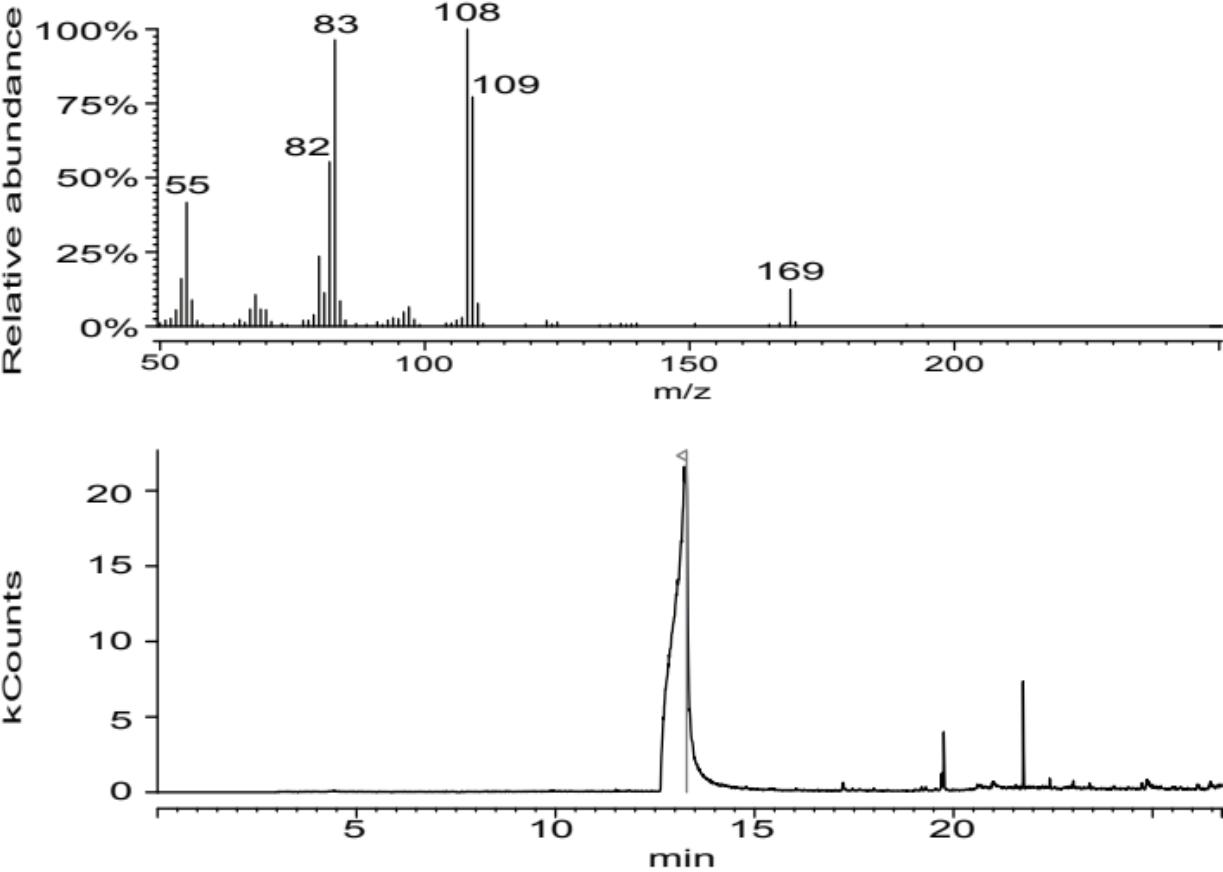


Fig. S13. GC-MS spectrum of isolated **2a**.